

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/578,158
Source: IFWP
Date Processed by STIC: 05/16/2006

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 05/16/2006

PATENT APPLICATION: US/10/578,158

TIME: 09:46:53

Input Set : A:\E5106-00003 Motoneuronotrophic Factor Gene Sequences.txt

Output Set: N:\CRF4\05162006\J578158.raw

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3 <110> APPLICANT: XUE, Bob, Baoguo
5 <120> TITLE OF INVENTION: Motoneuronotrophic Factor Gene Sequences
7 <130> FILE REFERENCE: E5106.00003
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/578,158
C--> 9 <141> CURRENT FILING DATE: 2006-05-04
9 <150> PRIOR APPLICATION NUMBER: 60/518,581
10 <151> PRIOR FILING DATE: 2003-11-07
12 <160> NUMBER OF SEQ ID NOS: 32
14 <170> SOFTWARE: PatentIn version 3.3
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 1859
18 <212> TYPE: DNA
19 <213> ORGANISM: Homo sapiens
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26 acaactgttt tctgtgcccc tgaagagttg caagagcacc ttgaaaacac aagcaaacat      180
28 atcatatcaa ttccaggca tctaattaat tgtgcaccaa aatcgttacc ctccaatct      240
30 tgcaacagaa gagcaaaagc tgcttagacc ttactcaaag gctccaaagc agaaacaagt      300
32 tttgcttctt gcagcaatgt gtaacagagg aaacagatgt cctggaagat cccatggtct      360
34 gtttcaggtg agatggaacc aatgctgcac acgaagattc atctcaaag aaatgcacag      420
36 gaaaagccaa ttactttatg tgaataaaag aataaatccc taaagcagtg gttctcaacc      480
38 agagtgtatc caccacaccc ccagagggca tttgggaatt cttggggaca ttttggggtg      540
40 acacactgaa ctgctggatg ctatcagcat ttagtaggta tgctcgatgt cttgcagaag      600
42 gacatgatgg tcctacacag taaggaatgg attacctaca atattaatag cagcctccca      660
44 tacacacttt tgacaccctt ccctaaagga ttaatatgct ccaaccctcc tgtccccaca      720
46 gttcagtggt tctccctacc ctcaccatga tcggatgaaa aaaaataagg tttcacagct      780
48 taagagttaa attctggaat ccaactacaa gctcataact gtagcatgga acctggtagt      840
50 agcataataa ataaattttt agtaagagge ttaagaaatt ttagcaaaaa aagcactccc      900
52 tttcttcttc cctacatatc tcatatgttt ttcaacacaa aaaattctgt gatttttagag      960
54 aaactttctt cagtactttt aagttcaaaa ccagatgctc attacagttc ttttaaacac      1020
56 caaactagtc atctcaaaaa tatggctaac tctctggact aaattccata ggaaaaatta      1080
58 ttaatttcaa aatgcctaatt tttgatcaaa tgctgaaaag agccaaaggc aatcatgtcc      1140
60 tgctttctac tcagggcaga gttccatgag gtcagaaaag ctccaatgat atccggaggt      1200
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66 caaaaaacca aaccaaatga aaacaaaccc caggctatth gcaggggggg ggaaagagat      1380
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72 tcacccaaaa gaatcttaag atgtaacttc atcactcaac ttgccaatta gcaaatagcg      1560
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76 cctcctgccg ggctttttt gccctcccgc taggagcctg ggaaatcccc ctccaacctt      1680
78 ttgctggcct gtcaccagaa gttcataaaa tgaattctac cagattctct gaatcctcct      1740

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80 tttccccagt catgtgccaa cagccaggca ataatgcccc accgtgacag gctccctgtt 1800
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86 <211> LENGTH: 4359
87 <212> TYPE: DNA
88 <213> ORGANISM: Homo sapiens
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95 agctaacaat aaaagaaaat taaatcactt gagaacccta cagtggcagc aaaatagagc 180
97 ccaagagata cctcctagca tgttcaaaga cttattaaaa gccacgttg gccaggcgtg 240
99 gtggcttatg cctataatcc caataccttg ggaggttgag gtgggaggat tgcttaaagc 300
101 cggagtttg aggccagcct aggcaacata gtgagacctc atctctacaa aagattgtat 360
103 aaaatttagc caggtgtagt ggtgcgacc tgagtccag ctactctgga agctgagatg 420
105 ggaagacggc ttgagccaa gagtttgagg ctacagtga ccatgattgc accatggcac 480
107 tccagcctgg gcaacagagc aagaccctgt ctcaaaaata aataaataac aaaaacaaaa 540
109 cacaatcacc ttgtatcagt ctcatgtgat ggcttgatga caataaagaa cagtttagac 600
111 tttctgaaag tgcatacata tatatacaca tatgactaag aaggtgaagt gaagccctca 660
113 atggccagcc cttttatagt agaacctaga aaacagcaac ttctttcaac atgggtgatg 720
115 gtgcatgttt tgtacccac atttagaaat ccatactctg agacaaacag aactaccgaa 780
117 agagaatgac caggcctcca gaatagcacc gaggcagcca tcaggagtta tagcaaaact 840
119 ttttaacgtg gaaagggagt cactctgctt ctataaagca gcccttatca gcggcattat 900
121 gagtaaaagc agcccactaa tgcaggccag actttaggac acagaaccag attccatttg 960
123 ggggctacag ctagcacagc tgtaaacctc tctccacca tcaaattctg agaccattag 1020
125 gcctggcacg gtggctcatg cctgtggtcc cagcactttg ggaagccaag ctgggaggat 1080
127 caactgagcc caggagtctg agactgcagt gagctatgat ctgccactg cactccagcc 1140
129 tgggtgacag aataagaccc tgtctcaaaa gaaaaaaaaa aaaaatctga ggcgattgaa 1200
131 ggcagacaac tataagagag tgccccata ggaactccac cactctccat ttagaatgtc 1260
133 ctttgacttt tgtgcacatt atctcatgag acctcacta tgactctgag aggttaagcag 1320
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137 tgcccaaggt cacaatcat gcagctaata agctgcctaa ccaggagatg agcctagcac 1440
139 tctgactcgt aggccagcgc aatctccagg acaccatgcg gctttgtgat gttttcagat 1500
141 aagaggcgga agaggggtact ggttaagagc ccagggtctg gcaccagcca acctgcattc 1560
143 caatcccatc tccaccacct actaaccacc tgatcttggtg tgagtctctt aacctcccca 1620
145 aacctgtttc cttacctgca caatgggggt gggagagaac agtcttactc catagagtca 1680
147 gagtgatgat taagtgat gatgaacata aagtactcaa attcatgtac tcaaaaaatg 1740
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151 cggagcttag actttaggca aaccatacac agaaaaaagt aaacagataa aatacttaca 1860
153 aagtgtgtta agaattgatta aggtgcaggg cgcagtggct cagcctgta atcctatcac 1920
155 tttgggaggg cggttcaggc agatcacctg aggtcgggag tttgagacca gcctgataaa 1980
157 catggagaaa tccgctctct acaaaaaaca aaattagccc caagcttatt gggcattgtg 2040
159 gcgcattcca gtaatccag ctactcggga ggctgaggca ggagaattgc ttgaaccggg 2100
161 gaggcggaga ctgcagtga cagaggtcgc acctctgac tccagcctgg gcaacaagag 2160
163 cgaaactctg tctcaaaaaa aagaatgatt aaggttaacag gtgagtact ggagagaata 2220
165 accggagggg ccaattttta agagtgttct ctaagcccta agggatcaga aagagaaatt 2280
167 cgtgtgaaga acggagagaa aagcactcta ggattagggg atggtatacg tgggggtcac 2340
169 agcacaggga agtcaggaac ctagagaaga caaatgtgac tacagcgctt cctctcccg 2400
171 gatttgcgga gcaaggctgg agctcgtgag ggtgaccaca actattttta aaacgacaaa 2460
173 gataaggctc aagagagggg atatgtcttg cccaaggcca cagctgctca gaggagtagc 2520

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175 tgggaccagg gcccttcagt attctacctc cagaccacag ctaagcccac gctctctgag 2580
177 aaggccttgt atacactgaa ctccctcatg tatttcactg acaactgttt tctgtgcccc 2640
179 tgaagagttg caagagcacc ttgaaaacac aagcaaacat atcatatcaa cttccaggca 2700
181 tctaattaat tgtgcaccaa aatcgttacc cttccaatct tgcaacagaa gagcaaaagc 2760
183 tgcttagacc ttactcaaag gctccaaagc agaaacaagt tttgcttctt gcagcaatgt 2820
185 gtaacagagg aaacagatgt cctggaagat cccatgggtc gtttcagggt agatggaacc 2880
187 aatgctgcac acgaagattc atctcaaatg aaatgcacag gaaaagccaa ttactttatg 2940
189 tgaataaaaag aataaatccc taaagcagtg gttctcaacc agagtgatac caccacacc 3000
191 ccagagggca tttgggaatt cttggggaca ttttgggtg acacactgaa ctgctggatg 3060
193 ctatcagcat ttagtaggta tgctcgatgt cttgcagaag gacatgatgg tcctacacag 3120
195 taaggaatgg attacctaca atattaatag cagcctccca tacacacttt tgacaccctt 3180
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201 ccaactacaa gctcataact gtagcatgga acctggtagt agcataataa ataaatTTTT 3360
203 agtaagaggc ttaagaaatt ttagcaaaaa aagcactccc tttcttcttc cctacatatc 3420
205 tcatatgttt ttcaacacaa aaaattctgt gatttttagag aaacttctta cagtactttt 3480
207 aagttcaaaa ccagatgctc attacagttc ttttaaacac caaactagtc atctcaaaaa 3540
209 tatggctaac tctctggact aaattccata ggaaaaatta ttaatttcaa aatgcctaata 3600
211 tttgatcaaa tgccctgaaag agccaaaggc aatcatgtcc tgcttctcac tcagggcaga 3660
213 gttccatgag gtcagaaaag ctccaatgat atccggagggt ctgtcagaga ttaaaatata 3720
215 atcctaacaa ttcacaagct acttctaagt gttaccctaa attagtcact aatcgtttct 3780
217 cccccaacac tatttcacaa attaaagttt acagaattga caaaaaacca aaccaaata 3840
219 aaacaaacc caggctattt gcaggggggg ggaaagagat accccaaaag tcaaccctat 3900
221 ttcacagtat ttaaaagagt gatccaacag atattaccct ccataaagta ccctaaaggc 3960
223 aggagcaatc tttccctac actatctaaa ttttcccaac tcacccaaaa gaatcttaag 4020
225 atgtaacttc atcactcaac ttgccaatta gcaaatagcg gccccacat cccttttggc 4080
227 caattttcta gatgcctgac ctacagaca gacctgtttt cctcctgcca ggctttttt 4140
229 gccctccgc taggagcctg ggaaatcccc ctccaacctt ttgctggcct gtcaccagaa 4200
231 gttcataaaa tgaattcatc cagattctct gaatcctct tttcccagc catgtgccaa 4260
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238 <210> SEQ ID NO: 3
239 <211> LENGTH: 22
240 <212> TYPE: DNA
241 <213> ORGANISM: Homo sapiens
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247 <210> SEQ ID NO: 4
248 <211> LENGTH: 21
249 <212> TYPE: DNA
250 <213> ORGANISM: Homo sapiens
252 <400> SEQUENCE: 4
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257 <211> LENGTH: 20
258 <212> TYPE: DNA
259 <213> ORGANISM: Homo sapiens
261 <400> SEQUENCE: 5
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275 <211> LENGTH: 21
276 <212> TYPE: DNA
277 <213> ORGANISM: Homo sapiens
279 <400> SEQUENCE: 7
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283 <210> SEQ ID NO: 8
284 <211> LENGTH: 19
285 <212> TYPE: DNA
286 <213> ORGANISM: Homo sapiens
288 <400> SEQUENCE: 8
289 tcaccccaaa atgtcccca                19
292 <210> SEQ ID NO: 9
293 <211> LENGTH: 27
294 <212> TYPE: DNA
295 <213> ORGANISM: Artificial
297 <220> FEATURE:
298 <223> OTHER INFORMATION: Vector primer
300 <400> SEQUENCE: 9
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304 <210> SEQ ID NO: 10
305 <211> LENGTH: 27
306 <212> TYPE: DNA
307 <213> ORGANISM: Homo sapiens
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314 <211> LENGTH: 27
315 <212> TYPE: DNA
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323 <211> LENGTH: 27
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332 <211> LENGTH: 24
333 <212> TYPE: PRT
334 <213> ORGANISM: Homo sapiens
336 <400> SEQUENCE: 13

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339 1 5 10 15
342 Leu His Thr Lys Ile His Leu Lys
343 20
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347 <211> LENGTH: 56
348 <212> TYPE: PRT
349 <213> ORGANISM: Homo sapiens
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357 Trp Ile Thr Tyr Asn Ile Asn Ser Ser Leu Pro Tyr Thr Leu Leu Thr
358 20 25 30
361 Pro Phe Pro Lys Gly Leu Ile Cys Ser Asn Leu Pro Val Pro Thr Val
362 35 40 45
365 Gln Trp Leu Ser Leu Pro Ser Pro
366 50 55
369 <210> SEQ ID NO: 15
370 <211> LENGTH: 78
371 <212> TYPE: PRT
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374 <400> SEQUENCE: 15
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377 1 5 10 15
380 Arg Asn Phe Ser Lys Lys Ser Thr Pro Phe Leu Pro Pro Tyr Ile Ser
381 20 25 30
384 His Met Phe Phe Asn Thr Lys Asn Ser Val Ile Leu Glu Lys Leu Leu
385 35 40 45
388 Thr Val Leu Leu Ser Ser Lys Pro Asp Ala His Tyr Ser Ser Phe Lys
389 50 55 60
392 His Gln Thr Ser His Leu Lys Asn Met Ala Asn Ser Leu Asp
393 65 70 75
396 <210> SEQ ID NO: 16
397 <211> LENGTH: 30
398 <212> TYPE: PRT
399 <213> ORGANISM: Homo sapiens
401 <400> SEQUENCE: 16
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407 Pro Met Ile Ser Gly Gly Leu Ser Glu Ile Lys Ile Ser Ser
408 20 25 30
411 <210> SEQ ID NO: 17
412 <211> LENGTH: 21
413 <212> TYPE: PRT
414 <213> ORGANISM: Homo sapiens
416 <400> SEQUENCE: 17
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419 1 5 10 15
422 Gly Arg Pro Ser Thr

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RAW SEQUENCE LISTING ERROR SUMMARY
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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:9

VERIFICATION SUMMARY

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date